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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
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Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SECRETED PEPTIDES

(57) Abstract: The invention provides secreted active peptides, methods and compositions for making such peptides, and methods of using the peptides in detection assays, for disease diagnosis, for disease treatment and for drug development, in particular for microbial or viral infections.

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Figure	1

MKTQRDGHSLGRWSLVLLLLGLVMPLAIIAQVLSYKEAVLRAIDGINQRSSDANLYRLLD	60
LDPRPTMDGDPDTPKPVSFTVKETVCPRTTQQSPEDCDFKKDGLVKRCMGTVTLNQARGS	120
FDISCDKDNKRFALLGDFFRKSKEKIGKEFKRIVQRIKDFLRNLVPRTES	170

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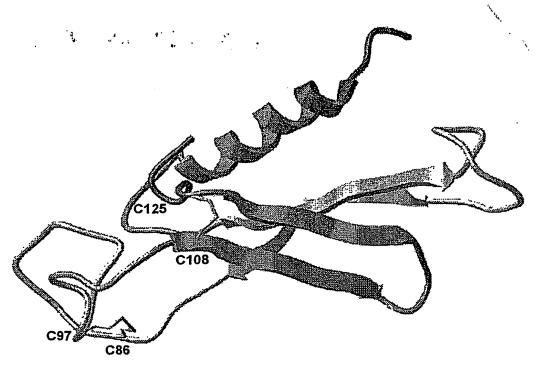
PCT/EP2003/006930

Figure 2

1RBP Seq ID 6 CLGIGSCNDFAGCGYAVVCFW---CMGTVTLNQARGS-FDISCDKDNK *:* : *: *: : *

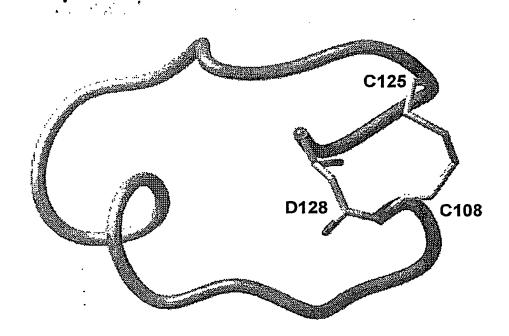
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Figure 4



PCT



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		of Transmittal of International Search Report (20) as well as, where applicable, item 5 below.
H 2131 PCT S3	ACTION	20) as well as, where applicable, lieff 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/EP 03/06930	30/06/2003	08/07/2002
Applicant		
GENEPROT, INC.	•	
This International Search Report has be according to Article 18. A copy is being	en prepared by this International Searching Auth transmitted to the International Bureau.	nority and is transmitted to the applicant
This International Search Report consis	ts of a total of <u>5</u> sheets. by a copy of each prior art document cited in this	report.
Basis of the report		
	e international search was carried out on the ba- nless otherwise indicated under this item.	sis of the international application in the
the international search Authority (Rule 23.1(b))	was carried out on the basis of a translation of t	he international application furnished to this
was carried out on the basis of X contained in the interna filed together with the infurnished subsequently	and/or amino acid sequence disclosed in the in the sequence listing: tional application in written form. Iternational application in computer readable form to this Authority in written form. to this Authority in computer readble form.	
	ubsequently furnished written sequence listing d	loes not go beyond the disclosure in the
international application	as filed has been furnished.	
X the statement that the in furnished	ntormation recorded in computer readable form i	s identical to the written sequence listing has been
Certain claims were for Unity of invention is la	ound unsearchable (See Box I). acking (see Box II).	· .
4. With regard to the title,		
m ·	submitted by the applicant.	
the text has been estab	lished by this Authority to read as follows:	
	* .	
5. With regard to the abstract,		-
X the text is approved as	submitted by the applicant.	·
	lished, according to Rule 38.2(b), by this Authori he date of mailing of this international search rep	
6. The figure of the drawings to be pu	blished with the abstract is Figure No.	
as suggested by the ap	plicant.	None of the figures.
because the applicant for	alled to suggest a figure.	
because this figure bett	er characterizes the invention.	

G01N33/53

A61K39/00

A61K38/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 - C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, SEQUENCE SEARCH, CHEM ABS Data, BIOSIS, EMBASE

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X 、	WO 02 13857 A (EGYED ALENA; FRITZ JOERG (AT); MATTNER FRANK (AT); BUSCHLE MICHAEL) 21 February 2002 (2002-02-21) SEQ ID NO.11 figure 1	1-13
X	WO 02 09738 A (MCANULTY JONATHAN F; REID TED W (US); MURPHY CHRISTOPHER J (US)) 7 February 2002 (2002-02-07) SEQ ID NO:32 page 27; table 1	1-13
X .	US 6 103 888 A (HIRATA MICHIMASA ET AL) 15 August 2000 (2000-08-15) cited in the application SEQ ID NO:2 column 29; figure 10 -/	1-13

X Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
 Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance E* earlier document but published on or after the international filing date L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O* document referring to an oral disclosure, use, exhibition or other means P* document published prior to the international filing date but later than the priority date claimed 	 'T' tater document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
14 October 2003	05/11/2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Authorized officer Sirim, P

alegory °	tion) DOCUMENTS CONSIDERED TO B Citation of document, dication, whe	re appropriate, of the relevant passages	'	Relevant to claim No.
<i>y</i>	bound to lipoprotein JOURNAL OF BIOLOGICA vol. 274, no. 32,	licidin, hCAP-18, is ns in plasma" AL CHEMISTRY,		1-13
	6 August 1999 (1999- 22445-22451, XP00229 ISSN: 0021-9258 page 22445; figure page 22450, column page 22451, column	57545 7; table II 1, paragraph 1		
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INTERNATIONAL SEARCH REPORT

Box I	1 Observations whe rtain claims were found unsearchable (Continue)	n of item 1 of first sheet)
This Into	International Search Report has not been established in respect of certain claims under Artic	le 17(2)(a) for the following reasons:
1. χ	χ Claims Nos.:	·
	Although claims 9 to 13 are directed to a method of human/animal body, the search has been carried out a effects of the compound/composition.	treatment of the
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the pan extent that no meaningful International Search can be carried out, specifically:	prescribed requirements to such
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second a	and third sentences of Rule 6.4(a).
·		
Box II	II Observations where unity of invention is lacking (Continuation of item 2	of first sheet)
This Inte	International Searching Authority found multiple inventions in this international application, as	s follows:
1.	As all required additional search fees were timely paid by the applicant, this international searchable claims.	l Search Report covers all
	scarchable dams.	
2.	As all searchable claims could be searched without effort justifying an additional fee, this of any additional fee.	s Authority did not invite payment
	of any additional rec.	
3 [As only some of the required additional search fees were timely paid by the applicant, th	is International Search Report
ــا	covers only those claims for which fees were paid, specifically claims Nos.:	о тенциона осаон пероп
4.	No required additional search fees were timely paid by the applicant. Consequently, this restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	International Search Report is
Remark	ark on Protest The additional search fees were acc	ompanied by the applicant's protest.
	No protest accompanied the paymen	nt of additional search fees.

PCT/EP	03/06930
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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0213857	A	21-02-2002	AU CA WO EP	8981301 A 2418854 A1 0213857 A2 1309345 A2	25-02-2002 21-02-2002 21-02-2002 14-05-2003
WO 0209738	A	07-02-2002	AU CA EP WO US	7907301 A 2417331 A1 1305040 A1 0209738 A1 2002090369 A1	13-02-2002 07-02-2002 02-05-2003 07-02-2002 11-07-2002
US 6103888	Α	15-08-2000	AU EP JP WO US	4682593 A 0746605 A1 8504085 T 9402589 A1 5618675 A	14-02-1994 11-12-1996 07-05-1996 03-02-1994 08-04-1997